

NAME OF PAGE ON SIDEBAR: FY2014 Stormwater BMP Projects

TITLE OF PROJECT: Nitrogen Reducing Stormwater BMP Projects on Cape Cod, Massachusetts



Funded by the FY14-Southern New England Coastal Watershed Restoration Program (SNECWRP) for 2015 funds, two communities were selected for direct assistance projects to ~~to~~ design and construct a stormwater best management practice (BMP) for that will treatment of ~~for~~ nitrogen. Each of these communities currently have waterbodies that are impaired for nitrogen. Construction will take place during the spring of 2015.

The first BMP to be constructed will be an innovative subsurface gravel wetland ~~nitrogen~~ retrofit constructed on a parcel of land at that intercepts runoff discharging into Hyannis Inner Harbor in Barnstable, MA. The BMP will intercept stormwater runoff discharging from the Town's municipal separate storm sewer system (MS4) to Hyannis Inner Harbor, a waterbody listed as impaired for total nitrogen and fecal coliform. This BMP will be designed to treat a 0.3 inch design storm from an approximate 6.9 - 8.4 acres of MS4 catchment (approx. 3.5 - 4.2 acres impervious surface).

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The second BMP, a surface gravel wetland retrofit, will be constructed on a currently ~~an~~ undeveloped parcel of land along Oyster Pond Furlong, in Chatham, MA. This BMP will also that will intercept stormwater runoff from the Town's MS4 before being discharged into Oyster Pond in Chatham, MA, a waterbody similarly listed as impaired for nutrients and pathogens. The BMP will be designed to treat an approximate 16.9 - 18.4 acres of MS4 catchment (approx. 5.7 - 6.4 acres impervious surface).

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In part because stormwater runoff requires anaerobic conditions to treat nitrogen, both of these BMPs are innovative by their nature and/or application.

Tentative Project Schedule (Spring 2015)

BMP Site	Tentative Start Date	Task	Status
Gateway Marina (Hyannis, MA)	April 6-12 - 10 8	Pre-Construction Kick-off meeting	<u>completed</u>
		Equipment mobilization and materials stockpiling; site surveying and staking; sediment controls Mobilization	In progress
	April 19 -25	Topsoil Removal, excavation and grading	Ongoing Not yet started
		Geotextile Lining and Stone Placement	Scheduled Not yet started [KAREN, CHANGE THE REST TO "Scheduled"]
	April 26 – May 2	Piping and structure placement	Not yet started
		Wetland soil, loam, seed, topsoil, seeding	Not yet started
		Cleanup and demobilization	Not yet started
Oyster Pond Furlong (Chatham, MA)	May 17 - 23	Kickoff meeting	
		Mobilization	Not yet started
		Erosion controls, site clearing, topsoil removal	Not yet started
	May 24 - 30	Excavation and Grading	Not yet started
	May 31 – June 6	Geotextile lining and stone placement	Not yet started
	June 7 - 13	Wetland soil, loam, seed, topsoil, seeding	Not yet started
	June 14 - 20	Cleanup & demobilization	Not yet started
	October 11 - 17	Piping and structure placement	Not yet started
	October 18 - 24	Cleanup & demobilization	Not yet started

Pictures:

- Gateway Marina Site (Hyannis Inner Harbor, Hyannis, MA) → link to Barnstable Picture Page
- Oyster Pond Furlong Site (Oyster Pond, Chatham, MA) → link to Chatham picture page

Downloads: [LYNNE WILL PROBABLY WANT THIS TO READ SOMETHING LIKE "PROJECT LITERATURE" OR SOMETHING, BUT I THINK ITS FINE FOR NOW. LET OTHER FOLKS, LIKE PAUL, JOHANNA AND LYNNE DECIDE B/C THEY WILL MORE LIKELY THAN NOT BE MORE INTERESTED IN HOW IT LOOKS AND READS]

- Gateway Marina (Barnstable) 60% Design → link to design
- Oyster Pond Furlong (Chatham) 60% Design → link to design

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WE'RE GOING TO WANT TO ADD MORE HERE, SUCH AS THE FINAL TISM, PERHAPS OUR PWS, THE LITERATURE REVIEW WHICH I EXPECT TO SEE SOON, THE FINAL DESIGN, ETC. BUT FOR NOW, THIS LOOKS GOOD.

Contacts:

USEPA Project Technical Lead:

Ray Cody (cody.ray@epa.gov)

Surface Water Branch, Office of Ecosystem Protection

Phone: (617) 918 – 1366

USEPA SNECWRP Coordinator:

Karen Simpson (simpson.karen@epa.gov)

Watersheds and Nonpoint Source Unit, Office of Ecosystem Protection

Phone: (617) 918 - 1672

PROJECT PARTNERS:

Town of Barnstable

Dale Saad, Ph.D.

Senior Project Manager

Water and Sewer

Barnstable DPW

382 Falmouth Road

Hyannis, MA 02601

Phone 508-790-6400 X4941

Town of Chatham

Robert A. Duncanson, Ph.D.

Director of Health & Natural Resources

Town of Chatham, 261 George Ryder Road, Chatham, MA 02633

(508) 945-5165 FAX (508) 945-5163

SUGGEST add Cape Cod Commission here

MAYBE add MassDEP here? I can check with Fred Civian and get back to you.

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